A Big Earth Data Platform for Three Poles

**Soil moisture data set of desert riparian forest in the lower reaches of Heihe River (2010-2012)**

1、Description

Soil water content is the key factor affecting the transpiration water consumption of plants in desert riparian forest. In this project, the typical plant communities in the lower reaches of Heihe River are selected, with coordinates of 42 ° 02 ′ 00.07 ″ N and 101 ° 02 ′ 59.41 ″ E. through continuous measurement of soil water data in 2010-2012, the observation instrument is environscan (Australia, ICT), with observation depth of 10, 30, 50, 80 and 140cm, and observation frequency of 0.5h Understanding the mechanism of environmental regulation of transpiration water consumption of desert riparian forest in the lower reaches of Heihe River provides basic data support.

2、Keywords

Theme：Soil,Soil moisture/Water content
Discipline：Terrestrial Surface
Places：Ejin, The Lower Reaches of Heihe River Basin
Time：2010-2012

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：0.04MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.03335278 | - |
| west：101.0498361 | - | east：101.0498361 |
| - | south：42.03335278 | - |

5、Time frame:2010-01-10 12:01:00+00:00--2013-01-09 12:01:00+00:00

6、Reference method

References to data:

Soil moisture data set of desert riparian forest in the lower reaches of Heihe River (2010-2012). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.017.2014.db2014

References to articles:

Yu, T.F., Feng, Q., Si, J.H., Xi, H.Y., Li, Z.X., & Chen, A.F. (2013). Hydraulic redistribution of soil water by roots of two desert riparian phreatophytes in northwest China's extremely arid region. Plant and soil, 372(1-2): 297-308.

7、Supporting project information

8、Data resource provider